

SERVICE

545-TYPE TELEPHONE SET

1. GENERAL

1.01 This section provides maintenance and connection information for the 545B (MD) telephone set previously found in Sections 502-525-200 and 502-525-400.

2. MAINTENANCE

Components

2.01 Maintenance of handsets, dials, and ringers is outlined in sections covering these components.

Removing and Replacing Housing

2.02 To remove housing, loosen captive screws in base of set. Lift housing up and toward front of set.

2.03 To replace housing, guide lower front of housing over pushbuttons, align housing with base of set and gently press housing into place. Tighten captive screws in base of set.

Exclusion Switch

2.04 Perform no field maintenance on exclusion switch and plunger other than cleaning contacts with a 265C tool.

2.05 Replace set or exclusion switch assembly if any of the following exclusion switch requirements cannot be met:

(a) Exclusion plunger should remain in the operated position when pulled up to the full extent of its stroke.

(b) The plunger should return to the fully depressed position when handset is replaced.

(c) With housing removed, normally closed contacts of the exclusion switch should have perceptible follow when operated manually.

(d) With housing removed, open contacts of the exclusion switch should have minimum separation of 1/64-inch; gauge by eye.

Mounting Cords

2.06 Replace mounting cord of early manufacture (Fig. 1) as follows:

(1) Remove dial from its mounting bracket.

(2) Remove terminal screws.

(3) Disconnect spade-tipped conductors and wafer sections.

(4) Disengage cord stay hook from right leg of dial mounting bracket.

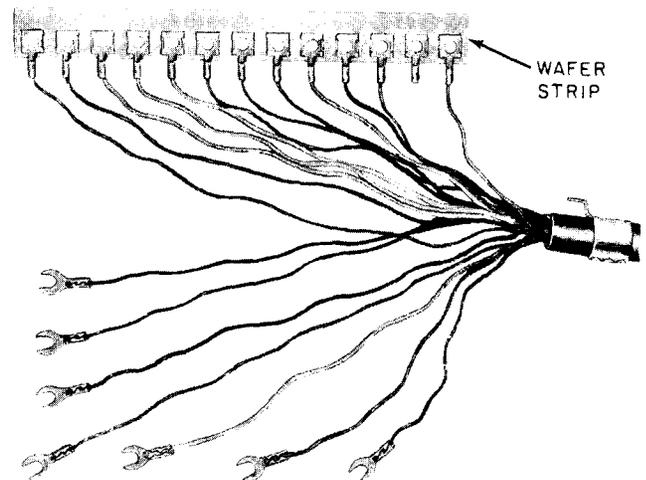


Fig. 1—Nonslotted Wafer Strip End of Mounting Cord, Early Type

2.07 Mounting cords of later manufacture feature a slotted wafer strip (Fig. 2) to facilitate replacement.

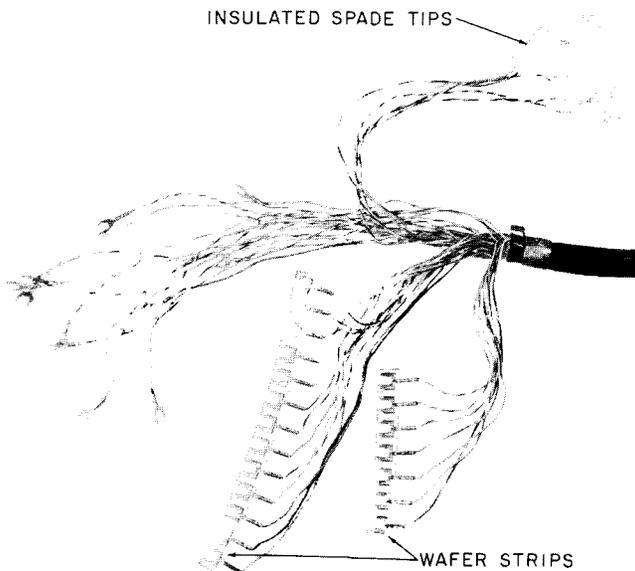


Fig. 2—Slotted Wafer Strip End of Mounting Cord, Later Type

Lamps and Pushbuttons

2.08 Replace cracked pushbuttons or collars. Remove accumulated dirt or film from lamps,

collars, and pushbuttons with a water dampened cloth. **DO NOT USE SOLVENTS OF ANY KIND.** If cleaning does not correct binding of pushbuttons, replace button and collar assembly.

2.09 To replace defective lamp:

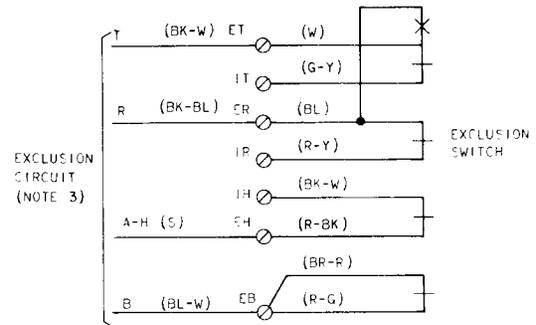
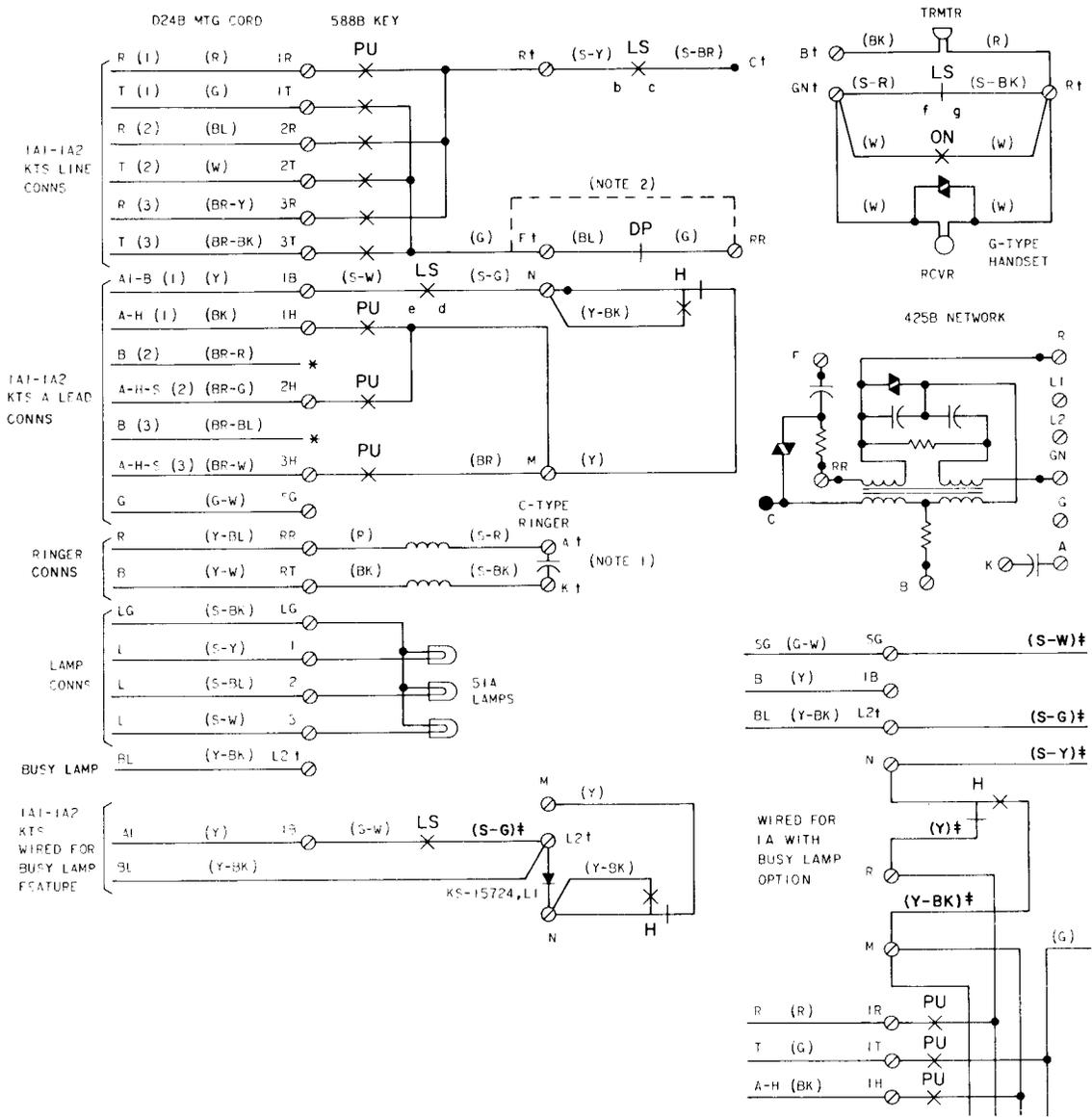
- Remove dial from mounting bracket.
- Lift lamp from socket with KS-6320 orange stick.
- Align lamp contact surfaces when placing new lamp in socket.
- Remount dial.

2.10 The button and collar assembly should be carefully aligned to avoid interference with removal or replacement of housing.

3. CONNECTIONS

Pickup Signal Key Conversion

3.01 For the 545B (MD) telephone set to operate with the HPPP option the BR key lead must terminate at M, for the HPPS option the BR key lead must terminate at SG.



- NOTES
- 1 IF CAPACITOR IS NOT REQUIRED, MOVE (S) RINGER LEAD TO A
 - 2 FOR MANUAL SERVICE MOVE (G) LEAD FROM F TO RP. REPLACE DIAL WITH 95B APPARATUS BLANK.
 - 3 IF EXCLUSION FEATURE IS ADDED, CONNECT SWITCH LEADS PER TABLE B.

- LEGEND:
- * INSULATED AND STORED
 - † NETWORK TERMINALS-UNDESIGNED TERMINALS ARE ON KEY TERMINAL BOARD
 - ‡ LEADS INVOLVED IN MODIFICATION
- DP DIAL PULSE CONTACT
H HOLD KEY
LS LINE SWITCH
PU PICKUP KEY
ON OFF NORMAL CONTACT

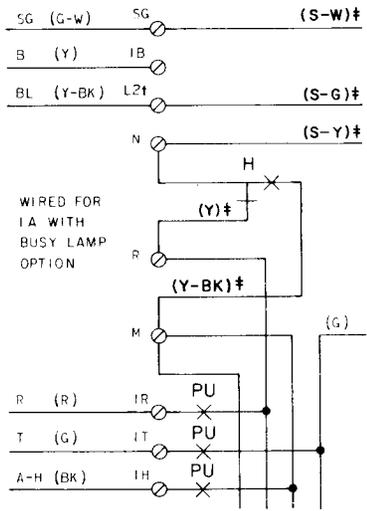


Fig. 3—545B (MD) Telephone Set, Connections

TABLE A

TERMINATIONS AT CONNECTING BLOCK

CKT	LEAD DESIG		IW. CABLE	CONN BLOCK		MTG CORD LEADS
	1A	1A1		TERM.	NO.	
Line 1	R	R	BL-W	1	Block Nearest Cord Butt	R
	T	T	W-BL	2		G
	B	A1	O-W	4		Y
	H	A	W-O	5		BK
Line 2 and Sig	R	R	G-W	6		BL
	T	T	W-G	7		W
	B	—	BR-W	9		BR-R
	H-S	A-S	W-BR	10		BR-G
Line 3 and Sig	R	R	S-W	3		2
	T	T	W-S	8	BR-BK	
	B	—	BL-R	1	BR-BL	
	H-S	A-S	R-BL	2	BR-W	
Sig Grd	G	G	BL	1	3	G-W
Sta Bsy Lp	BL	BL	BK	2		Y-BK
Ringer or Buz	R	R	O-BK	4		Y-BL
	B	B	BK-O	5		Y-W
Excluded Ckt	R	R	G-BK	6		BK-BL
	T	T	BK-G	7		BK-W
	B	*	BR-BK	9		BL-W
	H	A	BK-BR	10		S
Lamp 1	L	L	BL-Y	1	4 Straps	S-Y
	LG	LG	Y-BL	2		S-BK
Lamp 2	L	L	O-Y	4		S-BL
	LG	LG	Y-O	5		
Lamp 3	L	L	G-Y	6		S-W
	LG	LG	Y-G	7		

* To advance A1 lead to excluded station, place strap at connecting block from terminal 4 of 1st block to terminal 9 of 3rd block.

TABLE B

LINE EXCLUSION

(See Note)

EXCLUSION	KEY TEL SYS	EXCLUSION-KEY LEADS			
		R-Y	G-Y	BR-R	BK-W
On Any Line	1A	R†	T*	1B†	H†
	1A1	R†	T†	EB	H†

Note: To advance A1 lead to excluded station, place strap at connecting block from terminal 4 of 1st block to terminal 9 of 3rd block.

* When other than Line 1 is excluded, remove (Y) mounting-cord conductor from terminal 1B and insulate. Connect balance lead-cord conductor of line involved to terminal 1B.

† Terminal of line involved.